

Small Business Innovation Research Small Business Technology TTransfer

Dr. Joseph Grant & Mr. Carlos Torrez | NASA SBIR/STTR Program Overview | 08.16.2018

The SBIR and STTR Programs

Small Business Innovation Research (SBIR)

Small Business set-aside program for Federal R&D – with potential for commercialization

NASA's SBIR and STTR programs have awarded **more than \$3.3 billion** to research-intensive American small businesses

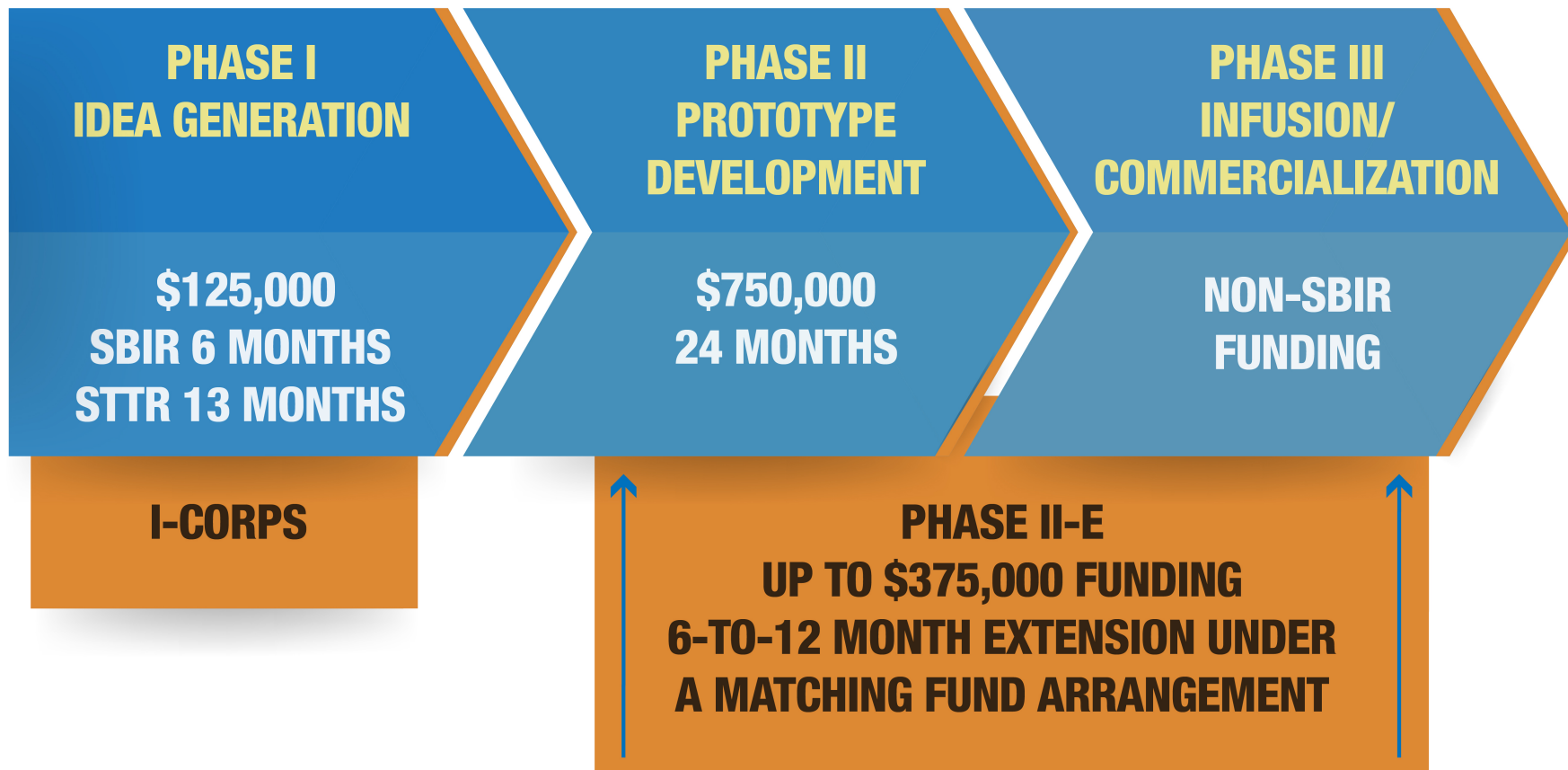
Small Business Technology Transfer (STTR)

A sister set-aside program to facilitate cooperative R&D between small business concerns and U.S. research institutions – with potential for commercialization

Engineers and scientists from **more than 12,000** small businesses in all 50 States, DC and Puerto Rico have participated

SBIR/STTR Program Structure

NASA SBIR/STTR PROCESS



Go to sbir.nasa.gov/guide for details

Learning about NASA's Needs

Focus Areas

NASA's research subtopics are organized by "Focus Areas" that group interests and related technologies.

- **Identify** the Area(s) closest to your innovation/idea
- **Go** to our website to research
- **Prepare to write** a proposal tailored to NASA's needs

<http://sbir.gsfc.nasa.gov/solicit-detail/58007>

2018 Focus Areas

1. In-Space Propulsion Technologies	12. Entry, Descent and Landing Systems
2. Power and Energy Storage	13. Information Technologies for Science Data
3. Autonomous Systems for Space Exploration	14. In-Space and Advanced Manufacturing
4. Robotic Systems for Space Exploration	15. Lightweight Materials, Structures, Assembly, and Construction
5. Communications and Navigation	16. Ground and Launch Processing
6. Life Support and Habitation Systems	17. Thermal Management Systems
7. Human Research and Health Maintenance	18. Air Vehicle Technology
8. In-Situ Resource Utilization	19. Integrated Flight Systems
9. Sensors, Detectors and Instruments	20. Airspace Operations and Safety
10. Advanced Telescope Technologies	21. Small Spacecraft Technologies
11. Spacecraft and Platform Systems	22. ISS Utilization and Microgravity Research

SBIR/STTR Success

PHASE III SUCCESS

IRIS AO products derived from SBIR funding are available for world-wide distribution by Edmund Optics - approximately \$2 million revenue generated annually from the technology developed from NASA SBIR. NASA's SBIR program invested \$875,000.

SNAPSHOT

Since the first exoplanet discovery in 1995, NASA has dedicated resources to develop deformable mirrors for powerful telescopes to determine if there are signs of life beyond Earth on planets outside our solar system.

SPECIAL MIRRORS HELP NASA DETECT PLANETS

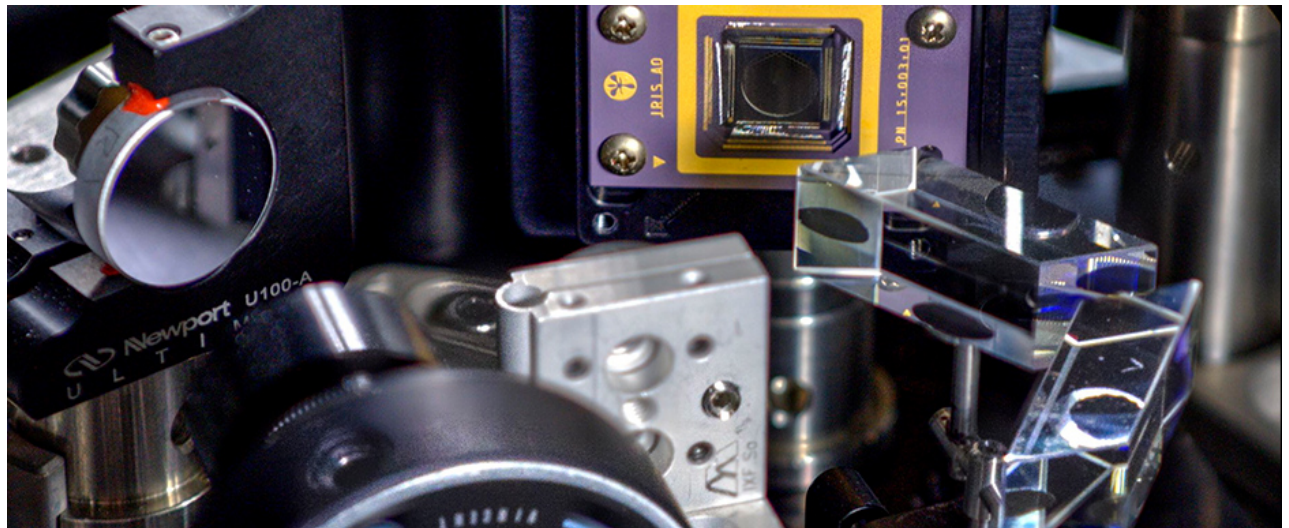
IRIS AO, Inc., Berkley, CA

Challenge

Starlight can lower the contrast in images sent back to Earth from a telescope traveling in space, making it harder to detect planets light years away.

Innovation

IRIS AO, Inc. helped NASA to develop deformable mirror (DM) technology that can filter out direct light from stars that limit the visibility of exoplanets. The technology is a key component of starlight blocking instruments on telescopes. The DM is used to correct optical aberrations that otherwise reduce the resolution of an image.



Contact us and let's innovate together

Website

www.sbir.nasa.gov

Sign up for our Newsletter

<https://sbir.nasa.gov/info>

NASA Help Desk

301.937.0888

Small Business Innovation Research Program



Federal Small Business Summit
Honolulu, HI
August 16, 2018

Kelly Wright
Director, Technology
Partnerships Office





NOAA

SCIENCE. SERVICE. STEWARDSHIP.

NOAA's Mission:

To understand and predict changes in **climate**, **weather**, **oceans** and **coasts**.

To conserve and manage **coastal** and **marine ecosystems** and resources.

To share that knowledge and information with others.





Weather >



Climate >



Oceans & Coasts >



Fisheries >



Satellites >



Research >



Marine & Aviation >



Charting >



Sanctuaries >



NOAA SBIR Program

Awards	Grants (Starting in FY19)
Solicitation per fiscal year	One
Released	October
Proposals due	December/January
Available via	grants.gov / DoC Grants-Online
Typical Phase I Awards	\$120K, Approximately 30
Typical Phase II Awards	\$400K, Approximately 20
Commercialization Assistance	Available to Phase II awardees



NOAA SBIR Topics / Subtopics

FY2019 SBIR Phase I FFO: Subtopics TBD

***Possible Examples:**

Increased Aquaculture Production

Recreational and Commercial Fisheries

Extreme Weather Impacts, Forecast and Prediction

Natural disasters / Weather events; Coastal Preparedness

Technology Transfer

** These are just examples. Final NOAA SBIR subtopics will be published in the October Federal Funding Opportunity.*



NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION OCEANIC AND ATMOSPHERIC RESEARCH

TECHNOLOGY PARTNERSHIPS OFFICE

Promoting Partnership & Commercialization of NOAA Technology and Innovations

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